



CROSSLINK TECHNOLOGY INC.

FORMULATED EPOXIES, URETHANES - CUSTOM CAST PARTS

ISO

9001

REGISTERED
QUALITY SYSTEM

SINCE 1981

TECHNICAL BULLETIN: CLR 1821 / CLH 6441

PRODUCT DESCRIPTION:

A FILLED, ROOM TEMPERATURE CURE, TWO COMPONENT EPOXY SYSTEM. THE SYSTEM IS SUITABLE FOR POTTING AND ENCAPSULATING ELECTRICAL AND ELECTRONIC COMPONENTS. THE PRODUCTS USE OF NON-ABRASIVE FILLER AND CONVENIENT MIX RATIO MAKES IT SUITABLE FOR PROCESSING IN AUTOMATIC DISPENSE EQUIPMENT. THIS PRODUCT IS CERTIFIED WITH UL AND PASSES UL94-V1 FLAMMABILITY TESTING.

SALES SPECIFICATION	CLR 1821	CLH 6441
COLOUR	GREY	TAN
VISCOSITY (NOTE 1, NOTE 4)	20000 - 40000 CPS @ 22 °C	16000 - 20000 CPS @ 22 °C
SPECIFIC GRAVITY	1.60 ± 0.03 gm/cm ³	1.58 ± 0.03 gm/cm ³
SHELF LIFE	12 MONTHS	12 MONTHS

HANDLING:

MIX RATIO BY WEIGHT (A:B) (NOTE 2)	100:100 (by vol. 100:100.0)
MIXED VISCOSITY (NOTE 4)	21000 cps @ 22 °C
POT LIFE OF 200 gm. mass (NOTE 4)	20.00 Min. @ 22 °C
GEL TIME OF 200 gm. mass (NOTE 4)	45.00 Min. @ 22 °C

CURE SCHEDULE (NOTE 3):

RECOMMENDED CURE SCHEDULE	24 Hrs. @ 22 °C
ALTERNATE CURE SCHEDULE	6 Hrs. @ 60 °C

CURED PROPERTIES: (NOT INTENDED FOR PREPARATION OF SPECIFICATIONS)

COLOUR	GREY
DENSITY (gm/cm ³)	1.59
SHORE HARDNESS	87D
TENSILE STRENGTH (psi) (ASTM D 638)	5500
TENSILE ELONGATION (%) (ASTM D 638)	4.0
HDT(°C) (ASTM D 648)	52
FLAMABILITY RATING	UL94-V1
LINEAR SHRINKAGE (in/in) (ASTM D 2566)	0.0040

ELECTRICAL PROPERTIES

DIELECTRIC CONSTANT	@1 KHz	4.00
DISSIPATION FACTOR A	@1 KHz	0.0200
DIELECTRIC STRENGTH	400 Volts/Mil	62.5 Mil/Section
ARC RESISTANCE		150 Seconds
VOLUME RESISTIVITY		40 x10 ¹⁴ Ω•cm

NOTES

Note1 If a filled resin, settling may occur during transportation or storage. Fillers must be remixed before use.

Note2 Mix ratio must be within $\pm 2\%$ of the stated amount and thorough mixing is required to avoid degraded final properties.

Note3 Other cure schedules may give satisfactory results, however, these should be determined by the customer for their given circumstances.

Note4 All measurements taken at 22°C unless otherwise specified.

Note5 These products may trigger allergic responses in some individuals. Prevent contact with skin, wash with plenty of soap and water immediately if contact occurs. Do not breathe vapours, provide good ventilation and exercise good housekeeping at work area. Read the Material Safety Data Sheet.

Note6 The “Guide to Operating Temperature” is based on our experience with materials of similar chemistry and/or thermal index. The ultimate suitability of this product for a given operating temperature is application dependent and may change according to the demands placed upon it in operation.

Note7 If indicated, the values under “Electrical Characteristics” may be based on supplier data for products with similar compositions. They are provided only as a guide and the recipient must test each material to determine its suitability for the intended application.

IMPORTANT

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